



CARSWELL/PLANT 4 RESTORATION ADVISORY BOARD

Fact Sheet #19
May 8, 2003

NAS FORT WORTH JOINT RESERVE BASE INSTALLATION RESTORATION PROGRAM

This is the 19th in a series of fact sheets focusing on the Installation Restoration Program (IRP) at the Naval Air Station Fort Worth Joint Reserve Base (NAS Fort Worth JRB). The NAS Fort Worth JRB, formerly Carswell Air Force Base (AFB), is in the process of planning and conducting activities for the identification, remediation, and closure of contaminated sites at the base.

The IRP is the Department of Defense's (DoD) primary mechanism for environmental response actions on U.S. Air Force installations. IRP activities are governed by provisions of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA), Resource Conservation and Recovery Act (RCRA), and other applicable federal and state regulations. These activities are being conducted through the combined efforts of the Air Force Center for Environmental Excellence (AFCEE) and the Air Force Real Property Agency (AFRPA). Under provisions of RCRA, the Air Force identified 68 solid waste management units (SWMU) and 20 areas of concern (AOC) at NAS Fort Worth JRB for further study and clean up, if necessary.

CARSWELL ON-BASE

RCRA FACILITY INVESTIGATION OF SOLID WASTE MANAGEMENT UNIT 49

The first round of soil and groundwater sampling activities at SWMU 49, a former aircraft wash rack, was conducted in January 2002. Soil samples were collected from four locations surrounding the former aircraft washing area. One monitoring well was installed in the downgradient direction, and two rounds of groundwater sampling have been conducted. Based on the results of these sampling efforts, SWMU 49 required additional sampling that was conducted in January 2003. Three additional monitoring wells were installed and sampled. These sampling data were evaluated to determine if this site requires additional sampling or if it can be submitted for closure. Based on the sampling results, it is anticipated that SWMU 49 will be submitted for closure this summer.

LIMITED RCRA FACILITY INVESTIGATION OF SOLID WASTE MANAGEMENT UNITS 54 AND 55

The Final Work Plans to conduct a limited RCRA Facility Investigation (RFI) were completed in September 2000 for the Storm Water Interceptors (SWMU 54) and the East Gate Oil/Water Separator (SWMU 55). Soil and sediment sampling was conducted for SWMUs 54 and 55 to determine if these units have released hazardous constituents to the environment. The first round of sampling was conducted in December 2000 with subsequent sampling in June 2001 and December 2001. Sampling results indicated that contaminated soil and sediment existed at both SWMUs 54 and 55. Additional delineation sampling will be necessary before these sites can be submitted for closure.

RCRA FACILITY INVESTIGATION OF LANDFILLS CONTINUES

RFIs continue at five former landfills, also referred to as SWMUs. These landfills include Landfill 7 (SWMU 17), Landfill 1 (SWMU 28), Landfill 2 (SWMU 29), Landfill 9 (SWMU 30), and Landfill 6 (SWMU 62). The results of the RFIs will determine if a source of potential contamination exists, and if the source has impacted the soil, groundwater, surface water, or sediments at or near each landfill. Work plans were prepared for the fourth phase of investigations at Landfills 1, 2, 6, 7, and 9, and field work was completed in February 2001. Additional sampling was conducted in June 2001. Based on evaluation of the data, interim remedial actions, also referred to as "hot spot removals," were necessary prior to the completion of the RFI for Landfills 2, 6, 7, and 9. These hot spot removals began in October 2001 and concluded in January 2002. A Final RFI Report recommending closure for Landfills 2, 6, 7, and 9 was submitted in September 2002. Texas Commission on Environmental Quality (TCEQ) approved closure of Landfills 2, 6, 7, and 9 in a letter dated January 31, 2003. Landfill 1 will require additional sampling and hot spot removals to be conducted later this summer.

RCRA FACILITY INVESTIGATION OF SOLID WASTE MANAGEMENT UNITS 19, 20, AND 21

The first round of field sampling activities was completed in May 2000 for RFIs of the following areas: former Fire Training Area No. 2 (SWMU 19), former aboveground waste fuel storage tank (SWMU 20), and former underground storage tank (SWMU 21).

A geophysical survey was completed at SWMUs 19, 20, and 21 in February 2001. Based on the results of this survey, several areas of buried metal were excavated, and additional soil sampling was conducted in August 2001. The geophysical anomalies were caused by buried scrap metal such as steel pipes, metal plates, wire, and road construction debris. Monitoring wells were installed at these sites in February 2001, and groundwater sampling was conducted in February, April, and June 2001. Additional rounds of groundwater sampling were conducted in October and December 2001. A RFI Report was prepared for SWMUs 19, 20, and 21 and submitted to AFCEE for review last month. The final version of the RFI report is scheduled to be submitted to the regulators in June.

AREA OF CONCERN 1

Additional sampling of groundwater at AOC 1, the Base Service/Gas Station, and the delineation of contaminants further downgradient of AOC 1 were requested by the TCEQ in January 2000. Groundwater sampling performed in monitoring wells installed off-base in May 2000 and July 2001 revealed the presence of fuel hydrocarbons in several of the off-base wells. The most recent sampling of the off-base wells occurred in April 2002. Surface water samples collected from the West Fork Trinity River during previous

sampling events detected no fuel hydrocarbons downstream of AOC 1. Based on the groundwater results from samples collected from the off-base wells, the decision was made to install an interim remediation system. The purpose of the remediation system is to prevent any additional migration of fuel hydrocarbons beyond the base boundary and to remediate the fuel hydrocarbons present in the groundwater. The remediation system design was completed in coordination with the Navy. The Corrective Action Plan including the final remedial system design was approved by TCEQ in July 2002.

In accordance with the approved Corrective Action Plan, construction of the groundwater remediation system has been initiated at AOC 1. Construction activities began the week of January 20, 2003, with initial site preparations and the installation of the groundwater recovery wells. Construction of the treatment system and infrastructure began the first week of February 2003. Start up and operation of the system is expected to occur mid- to late-June 2003. Prior to the start up of the system, groundwater sampling was performed in order to establish baseline analytical data.

UNDERGROUND STORAGE TANK PROGRAM

The Plan A Site Assessments for underground storage tanks (UST) at Buildings 1411 and 4210 were submitted for AFCEE review and approval in November 2002. The Plan A Site Assessments were submitted to TCEQ in December 2002. TCEQ reviewed the Plan A Site Assessment for the UST at Building 1411 in March 2003 and issued a request for additional site information. Additional information was prepared and submitted to TCEQ on April 25, 2003. TCEQ indicated the site will be re-examined in the near future.

The Plan A Site Assessment for the UST at Building 4210 was temporarily removed from TCEQ's review process due to questions concerning the presence of the basewide TCE plume beneath this site. TCEQ was provided with contact information for the Air Force and TCEQ AFP 4 coordinators. TCEQ indicated the Plan A Site Assessment for the UST at Building 4210 was re-inserted into the review schedule and will be reviewed in the near future.

Release Determination Reports for USTs at Buildings 1040, 1191, 4115, 1658, and 1750 were submitted to AFCEE for review and approval in December 2002. Upon AFCEE approval, the release determination reports will be submitted to TCEQ. The Plan A Site Assessments and Release Determination Reports all recommend no further action and site closure.

RCRA FACILITY INVESTIGATION OF OIL/WATER SEPARATORS

RFIs conducted on 21 oil/water separator sites at NAS Fort Worth JRB have resulted in closure by the TCEQ. The most recent approval for 11 sites will soon be available for public comment. A public notice will be printed in the *Fort Worth Star Telegram* to solicit public comment in May 2003. Supporting documentation for these sites can be found at the White Settlement Library or via the world wide web at www.adminrec.com/arCarswell.htm.

RCRA FACILITY INVESTIGATION OF SOLID WASTE MANAGEMENT UNITS 5, 6, 12, 50, AND 61

RFIs conducted on SWMUs 5, 6, 12, 50, and 61 at NAS Fort Worth JRB have resulted in closure by the TCEQ. The approval for closure of these sites will soon be available for public comment. A public notice will be printed in the *Fort Worth Star Telegram* to solicit public comment in June 2003. Supporting documentation for these sites can be found at the White Settlement Library or via the world wide web at www.adminrec.com/arCarswell.htm.

SOLID WASTE MANAGEMENT UNIT 64 STATUS UPDATE

SWMU 64, the French Underdrain System, was removed by excavation in October 2001. A closure report documenting the removal of the system was submitted to the TCEQ in August 2002, and closure was approved in December 2002. All contamination has been investigated and remediated to Risk Reduction Standard (RRS) 2 levels so that no contamination exists that would negatively impact human health or the environment. A public notice was printed in the *Fort Worth Star Telegram* to solicit public comment on February 26, 2003. Supporting documentation for these sites can be found at the White Settlement Library or via the world wide web at www.adminrec.com/arCarswell.htm.

CARSWELL OFF-BASE

SANITARY SEWER SYSTEM RFI

Results from Phase II soil and groundwater sampling in March 2000 verified that most sections of the Sanitary Sewer may be recommended for closure. However, a Phase III RFI was required to complete confirmation and/or delineation of some contaminants at specific locations along the NAS sanitary sewer lines. The Phase III RFI began on February 14, 2001, and the sampling and analysis results indicate certain specific locations will require hot spot removals. Programming action to approve the removal of the hot spots is complete and is awaiting funding. The hot spot removals are scheduled to commence this fall.

OFF-SITE WEAPON STORAGE AREA

All field work has been completed, and areas of previous excavation have been filled and regraded. The Draft Final Closure Report for Removal of Hazardous/Non-Hazardous Wastes was submitted to State and Federal regulators in September 2000 and approval for closure under RRS 2 was received on February 5, 2001. The Deed Certification also has been completed for the entire Weapon Storage Area (WSA) site. Final closure of three USTs, that were removed under the TCEQ PST Division regulations, was approved by TCEQ early last summer. The Finding of Suitability for Transfer (FOST) for the WSA was reviewed by the regulatory agencies and the U.S. Air Force. However, the AFRPA, formerly the Air Force Base Conversion Agency (AFBCA), decided in August 2002 to convert the Explosive Ordnance Disposal area of the WSA from an agricultural safety clearance certification to a residential safety clearance certification. This conversion will require approval by the Department of Defense Explosive Safety Board and a revision to the FOST. Upon approval, the entire WSA can be transferred as a residential area. Programming is complete and the AFRPA is awaiting funding to accomplish this conversion. The conversion to residential requires 7 months to accomplish after funding is received.

PROPERTY TRANSFERS

- Property transfer for the Kings Branch Housing Area was completed in October 2000.
- Property transfer for the Federal Bureau of Prisons was completed in December 2000.
- Property transfer for the Stables was completed August 2001.
- The FOST for the WSA will require revision after the safety clearance for the Explosive Ordnance Disposal area is converted from agricultural to residential.
- The Finding of Suitability to Lease for Expansion of the Golf Course to include Landfill 6 was signed on October 5, 2001.

GLOSSARY OF TERMS

Area of Concern (AOC) – an area identified as a potential environmental concern.

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – Also known as “Superfund,” this law was enacted in 1980 and requires the identification, investigation, and clean up of contaminated sites.

Oil/Water Separator (OWS) – an oil water separator is used to separate the oil from waste water. Oil water separators are used commonly with service stations, maintenance shops, and surface water drainage systems where surface water run off may collect oil drippings or small spills.

Resource Conservation and Recovery Act (RCRA) – a law enacted to identify active hazardous waste generating facilities, investigate past site contamination, and initiate cleanup and pollution prevention measures.

RCRA Facility Investigation (RFI) – an investigation of soil and groundwater contamination resulting from a release of contaminants from a storage unit regulated under RCRA.

Risk Reduction Standard (RRS) – a risk-based cleanup standard for soil and groundwater defined by the Texas Natural Resource Conservation Commission.

Solid Waste Management Unit (SWMU) – a defined area used for storage or disposal of hazardous wastes as defined by RCRA.

Underground Storage Tank (UST) – a tank installed beneath the ground surface used for storing liquids such as gasoline, aviation fuels, and waste oils.

FOR MORE INFORMATION

If you would like more information, please see our web site at <http://www.afcee.brooks.af.mil/er/carswell/nasfw/rab/rab.htm> or contact the following individuals:

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